CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 86-46

REVISING WASTE DISCHARGE REQUIREMENTS FOR:

SAN MATEO COUNTY MEMORIAL PARK
SAN MATEO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter Board, finds that:

1. San Mateo County Memorial Park, hereinafter discharger, by application dated May 2, 1985, has applied for renewal of waste discharge requirements.

2. The discharger's extended aeration plant has a design flow of 0.03 million gallons per day (mgd) and serves two single-family residences and up to a maximum of 1250 park visitors and campers per day. Average dry weather flow is estimated at 0.024 mgd.

   The treatment plant includes a comminutor and two units, each consisting of an aeration chamber and settling basin, which are operational alternately, or in parallel; followed by a chlorinator. The roofed treatment plant is completely fenced and posted with signs. It esthetically blends with, and is obscured by, trees and bushes when viewed from the road.

   After disinfection, the treated wastewater is pumped to a 75,000 gallon holding pond and then to a designated hillside area about 1/5 mile from and above Pescadero Road and Pescadero Creek. Effluent is disposed of by spraying on the hillside area. The remote 3000 square feet spray area is relatively inaccessible to the public by reason of its topography and heavy natural growths of dense brush. Neither the pond nor the spray disposal area is fenced but they have some signs posted to warn hikers of the sewage.

3. Loma Mar Mutual Water Company withdraws water from Pescadero Creek about 500 feet downstream of San Mateo County Memorial Park.

4. The discharge is presently governed by Waste Discharge Requirements, Resolution No. 67-23, which allow discharge into the pond and spray field.

5. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for Pescadero Creek and contiguous waters.

6. The beneficial uses of Pescadero Creek and contiguous water bodies are:

   - Water contact and non-contact recreation
   - Wildlife habitat
   - Warm fresh water habitat
   - Fish migration and spawning
   - Municipal and domestic water supply
   - Preservation of rare and endangered species

7. This Order serves as Waste Discharge Requirements, adoption of which is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.

8. The discharger and interested agencies and persons have been notified of the Board's intent to issue revised requirements for the existing discharge and have been provide with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.

9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act, as amended and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

   1. There shall be no bypass or overflow of sewage from the collection, treatment, or disposal system to waters of the State.

2. The average dry weather flow shall not exceed 0.30 mgd. Average shall be determined over three consecutive dry weather months each year.

3. No wastewater effluent shall be applied to the effluent spray disposal area during periods of rainfall, when rainfall is anticipated, or for 48 hours after a rainfall.

4. The waste shall not be allowed to escape from the discharger's effluent disposal area into waters of the State via surface flow, resurfacing after percolation, or airborne spray.

5. No wastewater shall be applied to the effluent spray disposal area when soils are saturated to a point where effluent runoff is likely.

6. Wastewater ponding which could provide a breeding area for mosquitos is prohibited.

7. The collection, treatment and disposal of wastewater shall not impair ground water quality.

B. Specifications

1. Waste at any place within one foot of the holding pond surface shall not exceed the following limits:

In any grab sample:

Dissolved Oxygen	2.0 mg/l minimum
Dissolved Sulfides	0.1 mg/l maximum
pH	6.0 minimum
	9.0 maximum

2. Waste effluent, as discharged to the effluent spray disposal area, shall meet the following quality limit at all times:

In any grab sample:

5-day BOD	40 mg/l maximum

3. A chlorine residual of at least 0.5 mg/l shall be maintained in the effluent throughout a contact period of at least 30 minutes.

4. A minimum freeboard of two feet shall be maintained in the holding pond at all times.

5. Wastewater disposal shall be limited to the area specified in Finding 2 of this Order unless written authorizaiton is obtained from the Board's Executive Officer for the use of additional area.

6. Wastewater effluent shall not be applied to the effluent disposal area whenever Specifications B.1. and/or B.2. are not being met.

7. The public shall be effectively excluded from the treatment plant, holding pond, and effluent disposal area. These areas shall be clearly identified with posted notices to the public. The method and form of notification and exclusion shall be subject to the review and approval of the Executive Officer.

8. All equipment including pumps, piping, valves, etc. which may at any time contain wastes shall be adequately and clearly identified with warning signs and the discharger shall make all necessary provisions, in addition, to inform the public that the liquid contained therein is wastewater and is unfit for human consumption.

9. The treatment plant and holding pond shall be protected from erosion, washout, and flooding from the maximum flood having a predicted frequency of once in 100 years.

10. The holding pond shall have sufficient capacity to contain all wastewater generated from the facility during the period from November 1 through March 31 during the wettest rainfall period expected once in ten years. An allowance for spray field disposal may be permitted if the discharger demonstrates it to be appropriate.

11. The disposal area shall have sufficient capacity to dispose, during the period from April 1 through October 30, of all the waste received during the wettest year in ten years.

C. Provisions

1. The discharger shall comply with all sections of this Order immediately upon adoption except as stipulated in Provisions C.2. and C.3. below.

2. The discharger shall comply with Specifications B.10. and B.11. in accordance with the following schedule:

Task	Completion Date
(1) Submit a water balance for the holding pond and spray disposal area for operating conditions during the 1985-1986 wet weather season (Nov. 1 thru Mar. 31) including: influent flows, pond elevations, dates and amounts of waste pumped to the spray disposal area.	July 1, 1986
(2) Submit a water balance for the holding pond and spray disposal area for the wettest year expected once in ten years and a schedule for constructing any facilities necessary to achieve full compliance.	July 1, 1986
(3) Full compliance.	October 1, 1987

3. The discharger shall comply with Specifications B.7. and B.8. in accordance with the following schedule:

Task	Completion Date
(1) Submit a report and schedule for providing necessary fencing, signs and/or other methods of providing the required public notification and exclusion.	July 1, 1986
(2) Full compliance	September 1, 1986

4. In reviewing compliance with Prohibitions A.3., A.4. and A.5., the Board will take special note of the difficulties encountered in achieving compliance during entire wet seasons having more rainfall than the maximum expected once in ten years.

5. The discharger shall review and update his Operations and Maintenance Manual annually, or in the event of significant facility or process changes, shortly after such changes have occurred. Annual revisions, or letters stating that no changes are needed, shall be submitted to the Regional Board by April 15 of each year. A time schedule for completion of the initial revision shall be submitted by August 1, 1986. Documentation of operator input and review shall accompany each annual update.

6. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.

7. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977, except items A.9, A.10, A.16, B.2, and B.3.

8. The requirements prescribed by this Order supersede the requirements prescribed by Order No. 67-23. Order No. 67-23 is hereby rescinded.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on June 18, 1986.

ROGER B. JAMES
Executive Officer

Attachments:
Standard Provision & Reporting
Requirements, April 1977
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

San Mateo County Memorial Park

San Mateo County

WDR NO. _____

ORDER NO. 86-46

CONSISTS OF

PART A

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

A. EFFLUENT

Station	Description
E	At a point between the sewage treatment plant and the holding pond after the plant effluent has been disinfected.
H	At a point in the holding pond within 1 foot of the surface at least 25 feet from the discharge from the treatment plant.
S	At a point in the pipe from the holding pond to the spray field or just before discharge on the spray field.
L1 thru Ln	Every 200 feet along the down slope side of the spray area.
P1 thru P4	At each corner of the sewage treatment plant.

II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be that given as Table I.

B. Written reports shall be filed for each calendar quarter.

III. NOTIFICATION

The discharger shall promptly notify the Regional Board, San Mateo County Health Department, and Loma Mar Mutual Water Company if wastewater is found flowing off the spray disposal area in violation of the Regional Board's Waste Discharge Requirments.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 86-46.

2. Is effective on the date indicated below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

ROGER B. JAMES
Executive Officer

Effective Date JUNE 24, 1986

Attachment:
Table I

TABLE 1
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E		H	S	L1 thru L4	P1 thru P4						
TYPE OF SAMPLE	C-6	G	G	G	O	O						
Flow Rate (mgd)	Cont											
BOD, 5-day, 20°C or COD (mg/l & kg/day)	2W/M			2W/M								
Chlorine Residual & Dosage (mg/l & kg/day)		D										
Settleable Matter (ml/l-hr. & cu. ft./day)	2W/M											
Total Suspended Matter (mg/l & kg/day)	2W/M											
Oil and Grease (mg/l & kg/day)												
Coliform (Total or Fecal) (MPN/100 ml) per req't		2W/M										
Fish Tox'y 96-hr. TL % Surv'l in undiluted waste												
Ammonia Nitrogen (mg/l & kg/day)												
Nitrate Nitrogen (mg/l & kg/day)												
Nitrite Nitrogen (mg/l & kg/day)												
Total Organic Nitrogen (mg/l & kg/day)												
Total Phosphate (mg/l & kg/day)												
Turbidity (Jackson Turbidity Unit)												
pH (units)	2W/M		2W/M									
Dissolved Oxygen (mg/l and % Saturation)		2W/M	2W/M									
Temperature (°C)												
Apparent Color (color units)												
Secchi Disc (inches)												
Sulfides(if DO <5.0 mg/l) Total & Dissolved (mg/l)		2W/M	2W/M									
Arsenic (mg/l & kg/day)												
Cadmium (mg/l & kg/day)												
Chromium, Total (mg/l & kg/day)												
Copper (mg/l & kg/day)												
Cyanide (mg/l & kg/day)												
Silver (mg/l & kg/day)												
Lead (mg/l & kg/day)												

TABLE 1 (continued)

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E		H	S	L1 thru L4	P1 thru P4						
TYPE OF SAMPLE		O	O	O	O	O						
Mercury (mg/l & kg/day)												
Nickel (mg/l & kg/day)												
Zinc mg/l & kg/day)												
Phenolic Compounds (mg/l & kg/day)												
All Applicable Standard Observations			D		1 D	D						
Bottom Sediment Analyses and Observations												
Tot. Ident. Chlori. Hydro-carbons (mg/l & kg/day)												

LEGEND FOR TABLE

TYPES OF SAMPLES

C = grab sample
C-24 = composite sample - 24-hour
C-X = composite sample - X hours (used when discharge does not continue for 24-hour period)
Cont = continuous sampling
DI = depth-intergrated sample
BS = bottom sediment sample
O = observation

TYPES OF STATIONS

I = intake and/or water supply stations
A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations
B = bottom sediment stations
G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurence
H = once each hour
D = once each day
W = once each week
M = once each month
Y = once each year

2/H = twice per hour
2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and once in September
Q = quarterly, once in March, June, Sept. and December

2H = every 2 hours
2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous

2W/M - Every 2 weeks during the months of June, July, August, September and October; monthly in November through May.

(1) On each day when spray application occurs.